



# LIGHTING | LOAD TOTAL CONTROL

DIGITAL LIGHTING MANAGEMENT



***WattStopper***<sup>®</sup>

**DESIGNING**

IN AN

**ERA OF  
CHANGE**

# Managing energy performance is an increasing challenge in the face of new market forces

## **Evolving Energy Codes**

Codes are evolving from prescriptive to performance-based, requiring a greater understanding of available control solutions. Multi-level requirements will result in a sea-change from switching to dimming solutions. Requirements for reporting, documentation and demand response signal the need for intelligent solutions networked for single seat control and monitoring.

## **Transformative Lighting Technology**

Mainstream adoption of solid state lighting has added a new level of complexity to system design. Dimming LEDs requires careful coordination of lamps, drivers and controls to ensure proper performance.

## **High Performance Buildings**

New holistic design and operating tools are helping building owners achieve their goals of reducing operating and maintenance costs over the lifecycle of the building, while enhancing everyday work lifestyles. Increasingly projects will benefit from strategies including Building Information Modeling (BIM) as well as integrated building systems that address the key attributes of performance: sustainability, cost-effectiveness, safety and security, productivity and functionality.



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**LIGHTING | LOAD  
TOTAL CONTROL**

**DIGITAL LIGHTING  
MANAGEMENT**



simplicity | flexibility | scalability

The adaptable **Digital Lighting Management (DLM)** technology platform provides control infrastructure at every switch, outlet and lighting load for optimal energy performance. Built on open standards, DLM makes every control point accessible. In real time. From anywhere in the world.

Engineered for customers from designers to installers to end users, DLM is the best-of-class solution you'd expect from the original innovators of energy-efficient lighting controls.

In short, DLM delivers the most powerful and robust customer experience on the road to a net zero future.

# DLM

## THE ULTIMATE SOLUTION, TODAY AND TOMORROW

### SIMPLICITY...

Less is more. DLM makes it simple to optimize energy performance and meet the latest code requirements.

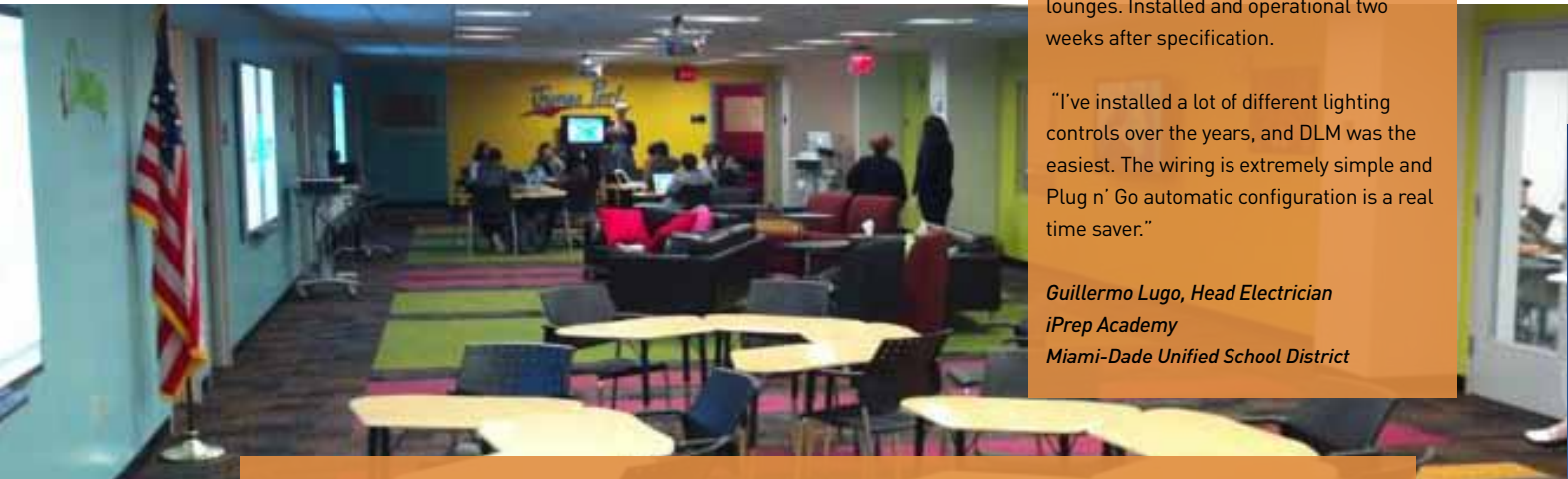
- fewer essential components for easy specification in any type of space
- plug-together devices and free topology for effortless wiring
- out-of-the-box code compliance with patented Plug n' Go™ automatic configuration
- intuitive user interfaces and convenient remote management options

#### **iPrep Academy**

Fast-track retrofit project implemented LED lighting upgrade + DLM controls in classrooms, offices, restrooms and lounges. Installed and operational two weeks after specification.

"I've installed a lot of different lighting controls over the years, and DLM was the easiest. The wiring is extremely simple and Plug n' Go automatic configuration is a real time saver."

*Guillermo Lugo, Head Electrician  
iPrep Academy  
Miami-Dade Unified School District*



### FLEXIBILITY...

It's hard to anticipate everything you might need for each control solution. DLM lets you tune each space to meet occupant needs, and expand or transform your lighting control systems in the future.

- building block architecture for design and installation freedom
- Push n' Learn™ personalization for simple to complex control sequences of operation — without premium pricing
- easy integration with other systems including A/V, motorized shades and HVAC

## SCALABILITY...

Supporting the drive toward a net zero future, DLM scales up to accommodate whole buildings or campuses designed for the highest levels of energy performance.

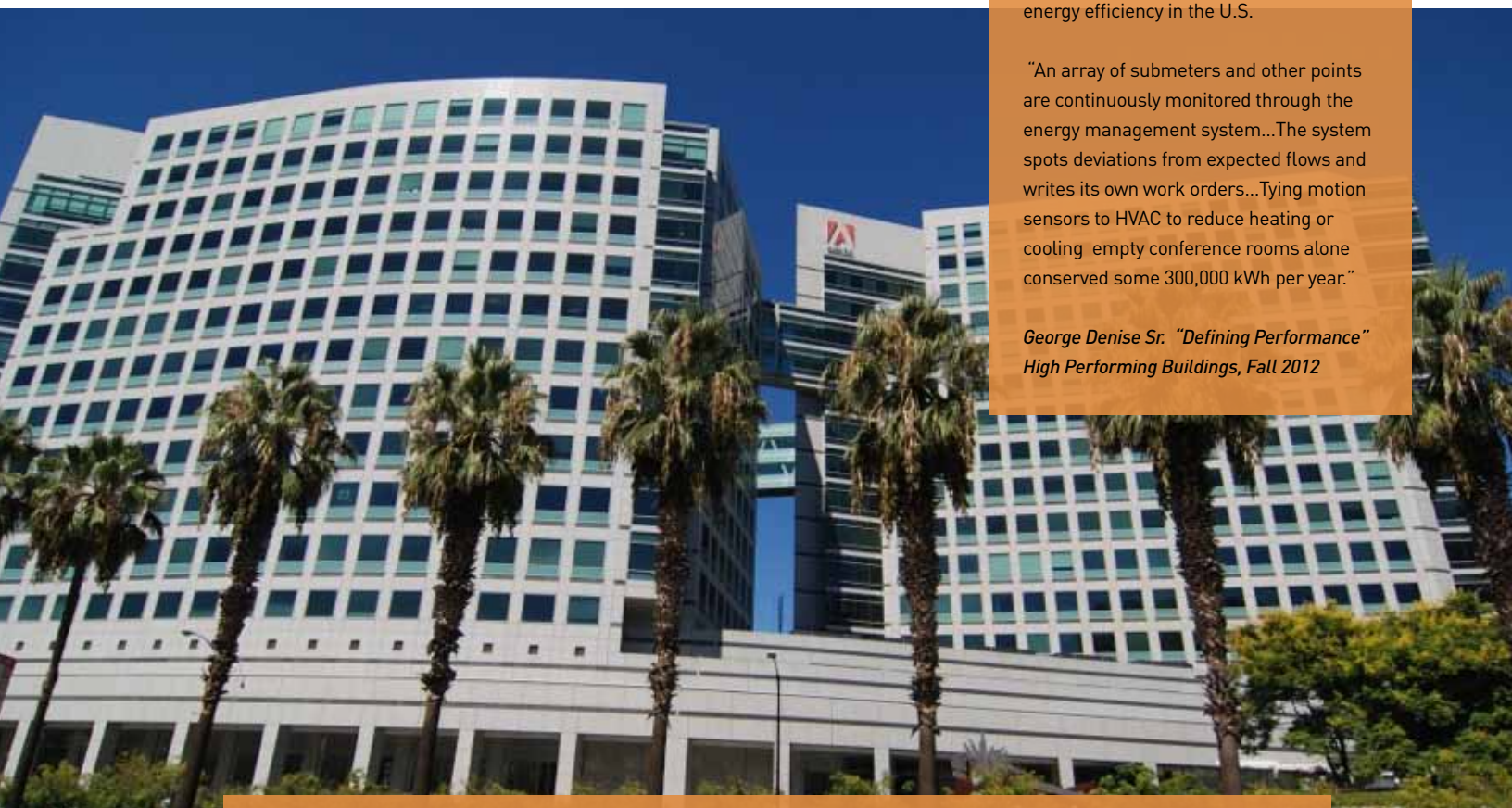
- single point of connection per room for centralized maintenance and reduced cost of ownership
- intelligent monitoring capabilities to verify performance
- integration with building automation systems (BAS) using open standards
- capable of smart grid integration with the peace of mind provided by enterprise-grade IT security

### **Adobe Systems, Inc.**

Building-wide sustainability measures, including integrating DLM occupancy + daylighting controls with HVAC and building management systems, put Adobe's San Jose headquarters in the top percentile of energy efficiency in the U.S.

"An array of submeters and other points are continuously monitored through the energy management system...The system spots deviations from expected flows and writes its own work orders...Tying motion sensors to HVAC to reduce heating or cooling empty conference rooms alone conserved some 300,000 kWh per year."

*George Denise Sr. "Defining Performance"  
High Performing Buildings, Fall 2012*



# DIM

## BOTTOM UP CONTROL SOLUTIONS

### Room Solutions

Whether you want code compliance or LEED certification, simply plug together your choice of components for autonomous, distributed control in each room.

In offices, conference rooms, classrooms, or hospital rooms, let room controllers, occupancy sensors, daylighting sensors, and wall switches work together automatically to coordinate control of lighting and plug loads.

Add convenience with sophisticated personalized sequences of operation, or by integrating AV and motorized shade control, or partition controls.



### Area Solutions

For larger spaces, from open offices, to lobbies, to gymnasiums, or warehouses, start with your choice of room controllers or lighting control panels.

For panel controlled spaces, plug in sensors and switches to reap the benefits of both time-based and more nuanced control strategies.

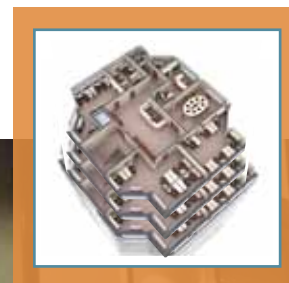




## Whole Building Solutions










Connect already functional room and area solutions via a network to monitor energy use and adjust control sequences from a central location.

Harness open source BACnet and Niagara connectivity to integrate any sized network with a building automation system (BAS) delivering data and control from a common interface. Employ strategies from occupancy-based HVAC setbacks to granular override operations for monitoring, scheduling and control.



## CONTROL STRATEGIES FOR SUPERIOR ENERGY PERFORMANCE MANAGEMENT

CONTROL STRATEGY	ROOM	AREA	WHOLE BLDG
 <b>On/off Switching</b> Relays controlled by occupancy sensors, daylighting sensors, scheduling and/or personal controls turn lighting on when it is needed and off at other times to save energy	●	●	●
 <b>Dimming/Multi-level Control</b> Manages energy by adjusting the lighting level, or recalling lighting scenes, in response to occupancy, daylight contribution, scheduling and/or personal controls	●	●	●
 <b>High End Trim</b> Reduces the maximum light level for energy savings when the lighting is on	●	●	●
 <b>Plug Load Control</b> Turns off task lighting and devices plugged in to selected outlets after hours or when an area is vacant	●	●	●
 <b>Occupancy-based Control</b> Turns lighting off when an area is vacant using passive infrared (PIR), ultrasonic or dual technology sensors.	●	●	●
 <b>Daylighting Control</b> Manages the electric light level as the daylight contribution changes	●	●	●
 <b>Personal Control</b> Saves energy through manual-on and auto-on to 50% control strategies that keep lights off, or at reduced levels, until needed	●	●	●
 <b>Shade Control</b> Adjusts motorized shades to reduce glare and minimize thermal gain	●	●	●

CONTROL STRATEGY	ROOM	AREA	WHOLE BLDG
 <p><b>AV Integration</b> Allows third party systems to command DLM, and enables coordination of A/V, touch screens, shading and lighting controls</p>	●	●	●
 <p><b>Scheduling</b> Saves energy by establishing time-based normal hours and after hours behaviors and sequences of operation</p>	●	●	●
 <p><b>Contact Closure Integration</b> Communicates occupancy status to HVAC and enables third party inputs for efficient operation</p>	●	●	●
 <p><b>Power Monitoring</b> Provides fast, affordable access to lighting and plug load energy use with per occupant granularity</p>	●	●	●
 <p><b>BACnet Integration</b> Provides thousands of lighting control data points for monitoring and scheduling</p>	●	●	●
 <p><b>Remote Device Configuration</b> Makes it easier to fine tune settings including sensitivity and time delay to maximize energy savings</p>			●
 <p><b>Demand Response</b> Dims lighting or turns off selected electrical loads in response to utility requests to minimize peak loads</p>			●
 <p><b>Web Browser-based Control</b> Manage from anywhere, on- or off-site, using standard web browser-based user interface</p>			●
 <p><b>Advanced Integration and Customization</b> Ultimate native control of data points and additional DLM parameters built on the Niagara framework.</p>			●

Choose DLM building blocks, starting with a foundation of distributed room controllers or centralized lighting control panels. Plug the devices together via free-topology Cat 5 networks, and enjoy the simplicity of Plug n' Go automatic configuration. Push n' Learn gives you the flexibility to create sophisticated sequences of operation without expensive customization. If project objectives reach beyond code compliance to higher levels of energy performance, DLM offers easy scalability (see pages 22-23).

### STEP 1

#### Select Load Control Devices

- Identify load types and control preferences:
  - Lighting and plug loads
  - Switched and dimmed loads
  - Emergency loads
  - Distributed and centralized circuiting
  - Current monitoring capability
  - Scheduling capability



Select room controllers, plug load controllers and panels.

### STEP 2

#### Select Occupancy Sensor

- Identify space type and occupancy characteristics:
  - Size and purpose of space
  - Partitions or obstructions
  - Mounting height and location
  - Line of sight to movement
  - Small or large movements
  - Integral control buttons



Select PIR, ultrasonic or dual technology and wall switch, wall mount or ceiling form factor.

**STEP 3****Select  
Personal  
Controls**

- Identify occupant control requirements:
  - Load control
  - Dimming control
  - Scene control
  - Wall mounted or handheld control
  - Manual partition control



Select switches and remotes, and specify button functions and sequences of operation. Customize switch color and button engraving in the field.

**STEP 4****Select  
Daylighting  
Sensor**

- Identify space type and daylight characteristics:
  - Side lighting or top lighting
  - Size of daylit area
  - One or more zones



Select single-zone dual-loop or closed-loop sensor, or multi-zone open loop sensor. Confirm that load control selections (step 1) support preferred on/off, bi-level, tri-level or continuous dimming operation.

**STEP 5****Select  
Interfaces**

- Identify network connectivity and third party interface requirements:
  - BACnet connectivity for room or for networking
  - Contact closure inputs or output
  - RS-232 communications
  - Analog photocell interface
  - Automatic partition control



Select network bridge module to add BACnet connectivity and additional interfaces if needed.

**STEP 6****Select Accessories  
& Configuration  
Tools**

- Consider installation and configuration requirements:
  - Cable lengths
  - Splitters and couplers
  - IR port locations
  - Wireless handheld configuration tool



Use pre-configured cables for reliability and enjoy ladder free configuration.

# ROOM SOLUTIONS

for code compliance

## 1 Select Load Control Devices

### Room Controller

intelligent switching or dimming control for all lighting types



### Plug Load Controller

integrates control with occupancy signal for greater energy savings and faster ROI



Get out-of-the-box code compliance. Plug n' Go automatic sequence of operation + default occupancy sensor parameters + automatic daylighting sensor calibration and configuration means simplicity, savings and accelerated payback.



## 2 Select Occupancy Sensors



**Corner Mount Sensor**  
reliable automatic shutoff  
calibrated to actual space  
usage

## 3 Select Personal Controls



**Wall Switch or Dimmer**  
for out-of-the-box auto-on to  
50% sequence of operation  
or full range dimming

## 4 Select Daylighting Sensor



**Closed Loop Photosensor**  
single zone control for  
switching or dimming

# ROOM SOLUTIONS

for high-profile spaces

## 1 Select Load Control Devices

**Dimming Room Controller**  
intelligent distributed control  
for all types of lighting



## 2 Select Occupancy Sensors

**Ceiling Mount Sensor**  
reliable automatic shutoff  
calibrated to actual space usage



## 3 Select Personal Controls

**Scene Switch and Dimmer**  
one button recall of preset  
lighting scenes or granular  
dimming control



Deliver convenience + productivity + optimal energy performance. Push n' Learn sophisticated sequences of operation and easy A/V integration mean flexibility without expensive customization.





## 4 Select Daylighting Sensor



**Open Loop Photosensor**  
single-zone or multi-zone control  
for switching or dimming

## 5 Select Interfaces



**NEW**

**Partition Switch or Interface**  
quickly reconfigures connected  
loads, switches and sensors in  
spaces with moveable walls



**NEW**

**RS-232 Interface**  
seamless integration for audio/  
visual equipment and motorized  
shades

# AREA SOLUTIONS

for centralized load control

## 1 Select Load Control Devices

### Relay Panel

centralized on/off switching  
with scheduled control  
programs

NEW



## 2 Select Occupancy Sensors

### Extended Height Sensor

PIR coverage for mounting  
heights from 20 to 40 feet

NEW



Enable the right strategies at the right times in public spaces.  
Lock out sensors + switches for event security, and lock in savings  
during normal hours.



### 3 Select Personal Controls



**Multi-button Wall Switch**  
allows manual override during selected hours

### 4 Select Daylighting Sensor



**NEW**

**Dual Loop Photosensor**  
combined open/closed loop control for single-zone switching or dimming and maximum savings and reliability

### 6 Select Accessories



**Wireless Handheld Configuration Tool**  
allows ladder free configuration of DLM devices

# AREA SOLUTIONS

for distributed load control

## 1 Select Load Control Devices

### Dimming Room Controller

intelligent control for all types of lighting



### Plug Load Controller

switches task lighting and more based on occupancy sensor signal



## 2 Select Occupancy Sensors

### Ceiling Mount Sensor

reliable automatic shutoff calibrated to actual space usage



Manage energy by adding a network connection to schedule distinct sequences of operation. Auto-on + default sensor settings ensure convenience and productivity during the day. Manual-on + lower sensitivity + shorter time delays increase savings after hours.



**4** Select Daylighting Sensor



**Open Loop Photosensor**  
single-zone or multi-zone control

**5** Select Interfaces



**Network Bridge**  
single point connectivity to preconfigured room or area controls

**6** Select Accessories



**Wireless Handheld Configuration Tool**  
allows latter free configuration of DLM devices

Sometimes a project needs to scale from a room or area solution (see pages 12-13) to a building wide application. By layering a network on top of pre-configured room and area solutions, professionals can monitor and tune lighting controls. By integrating DLM with other building systems, the project can achieve the highest levels of performance.

### STEP 7

#### Specify Network Control and Monitoring Options

- Identify desired room or area functionality that requires a network
  - Ability to monitor energy use of lighting and plug loads
  - Ability to schedule different sequences of operations
  - Access data and parameters from a central or remote location for maintenance and override
  - Integration to supervisory systems via data networks
  - Participation in demand response programs



## STEP 8

### Specify Network Scope and Integration Options

- Identify whole-building requirements to define system architecture
  - Web browser access to WattStopper turnkey system
  - Simple integration of selected data points via BACnet IP
  - Direct BACnet access to all room and area data
  - Direct Niagara AX access to all room and area data



## STEP 9

### Specify Scope of Responsibility

- Identify who is responsible for implementing room and area solutions, and network solutions
  - Installation and termination of network wiring (electrician or integrator)
  - Configuring room and area control sequences of operation
  - Establishing overrides and scheduling (WattStopper or others)
  - Establishing specialty use cases by global programming for laboratory or secure environments
  - Creating customized or personalized graphics

# WHOLE BUILDING SOLUTIONS

for centralized management

**1 to 4**  
**Select Room and Area Controls**



**5 to 6** **Select Interfaces & Accessories**

**Network Bridges**  
provide connectivity to distributed controls in each room or area



Total monitoring + total command means total control of every switch, sensor, room controller and plug load controller. So every load is commandable, and every setpoint is adjustable.





## 7 Specify Network Control and Monitoring

### Scheduling

network provides access to after hours parameters for room and area control devices



### Remote Device Configuration

network enables centralized maintenance



## 8 Specify Network Scope



### Segment Manager

global control, monitoring, adjustment, and scheduling across multiple rooms and buildings.



# WHOLE BUILDING SOLUTIONS

for BAS integration

1 to 4

Select Room and Area Controls



5 to 6

Select Interfaces & Accessories



**Network Bridges**

provide connectivity to distributed controls in each room or area

7

Specify Network Control and Monitoring

**BACnet Integration**

enables third party monitoring and control



**Demand Response**

interfaces with smart grid programming



Open protocols integrate intelligent building systems, including lighting + plug loads + HVAC. Approach net zero with secure connections to smart grid networks.



## 8 Specify Network Scope and Integration Options




**Segment Manager**  
global control, monitoring, adjustment, and scheduling across multiple rooms and buildings.



**Niagara AX Driver**  
automates BACnet device and point discovery and streamlines native Niagara integration




### Room and Area Controls

MODEL #	DESCRIPTION	VOLTAGE	LOAD RATINGS	FEATURES					
				ON/OFF	DIM	NOR	0-10V DIM	CM	RJ45
<b>1 ROOM CONTROLLERS</b>									
 LMRC-101	1-relay On/Off Room Controller	120/277VAC	Ballast: 20A Incan: 20A Motor: 1Hp	●		1			3
 LMRC-102	2-relay On/Off Room Controller	120/277VAC	Ballast: 20A Incan: 20A Motor: 1Hp	●		2			3
 LMRC-211	1-relay On/Off 0-10V Dimming Room Controller	120/277VAC	Ballast: 20A Incan: 20A Motor: 1Hp	●	●	1	1	●	4
LMRC-211-347*		347VAC*							
 LMRC-212	2-relay On/Off 0-10V Dimming Room Controller	120/277VAC	Ballast: 20A Incan: 20A Motor: 1Hp	●	●	2	2	●	4
LMRC-212-347*		347VAC*							
 LMRC-213	3-relay On/Off 0-10V Dimming Room Controller	120/277VAC	Ballast: 20A Incan: 20A Motor: 1Hp	●	●	3	3	●	4
LMRC-213-347*		347VAC*							
 LMRC-221	1-relay On/Off Forward Phase Dimming Room Controller	120/277VAC	Incandescent, MLV, LED: 20A 2-wire or 3-wire ballast: 16A	●	●	1		●	4
 LMRC-222	2-relay On/Off Forward Phase Dimming Room Controller	120/277VAC	Incandescent, MLV, LED: 20A 2-wire or 3-wire ballast: 16A	●	●	2		●	4
<b>PLUG LOAD CONTROLLERS</b>									
 LMPL-101	Plug Load Room Controller	120VAC	Ballast: 20A Incan: 20A Motor: 1Hp	●		1			3
 LMPL-201	Plug Load Room Controller with Current Monitoring	120VAC	Ballast: 20A Incan: 20A Motor: 1Hp	●		1		●	4










\* 15A Ballast only

#### FEATURE LEGEND








<span style="color: green;">●</span>	ON/OFF - ON/OFF SWITCHING
<span style="color: grey;">●</span>	DIM - DIMMING
<span style="color: blue;">●</span>	NOR - NUMBER OF RELAYS
<span style="color: purple;">●</span>	0-10V DIM - 0-10V DIMMING OUTPUT
<span style="color: blue;">●</span>	CM - CURRENT MONITORING
<span style="color: orange;">●</span>	RJ45 - NUMBER OF RJ45 PORTS

MODEL #	DESCRIPTION	FUNCTION
<b>1 LIGHTING CONTROL PANELS</b>		
 <b>NEW</b> LMCP8 LMCP24 LMCP48	LMCP Series Relay Panel Interiors and Enclosures	Switches lighting and plug loads in areas not suitable for room controllers Can be scheduled by segment manager, LMCT-100 or BAS




2







MODEL #	DESCRIPTION	VOLTAGE	COVERAGE	FEATURES	
				RJ45	LCD
<b>OCCUPANCY SENSORS</b>					
 LMPW-101	1-button PIR Wall Switch Occupancy Sensors	24VDC; 8mA	Up to 40 ft. (major motion) Up to 25 ft. (minor motion)	2	●
 LMPW-102	2-button PIR Wall Switch Occupancy Sensors	24VDC; 8mA	Up to 40 ft. (major motion) Up to 25 ft. (minor motion)	2	●
 LMDW-101	1-button Dual Technology Wall Switch Occupancy Sensors	24VDC; 20mA	Up to 40 ft. (major motion) Up to 25 ft. (minor motion)	2	●
 LMDW-102	2-button Dual Technology Wall Switch Occupancy Sensors	24VDC; 20mA	Up to 40 ft. (major motion) Up to 25 ft. (minor motion)	2	●
 LMPX-100	Corner Mount PIR Occupancy Sensor	24VDC; 7mA	<b>LMPX-100:</b> high density lens, up to 1,000 ft <sup>2</sup> <b>LMPX-100-1:</b> long range lens, up to 90 ft. <b>LMPX-100-3:</b> 2-sided aisleway lens, up to 60 ft. <b>LMPX-100-4:</b> 1-sided aisle lens, up to 60 ft.	1	●
 L MPC-100	Ceiling Mount PIR Occupancy Sensor	24VDC; 7mA	<b>LMPC-100:</b> extended range lens, up to 1,200 ft <sup>2</sup> <b>LMPC-100-1:</b> high density lens, up to 500 ft <sup>2</sup> <b>LMPC-100-5:</b> extended height lens, up to 3,800 ft <sup>2</sup>	2	●
 LMUC-100	Ceiling Mount Ultrasonic Occupancy Sensor	24VDC; 20mA	<b>LMUC-100-2:</b> up to 1,000 ft <sup>2</sup>	2	●
 LMDX-100	Corner Mount Dual Technology Occupancy Sensor	24VDC; 20mA	<b>LMDX-100:</b> up to 2,000 ft <sup>2</sup> (walking) up to 1,000 ft <sup>2</sup> (desktop)	1	●
 LMDC-100	Ceiling Mount Dual Technology Occupancy Sensor	24VDC; 20mA	<b>LMDC-100:</b> up to 1,000 ft <sup>2</sup>	2	●









3

MODEL #	DESCRIPTION	VOLTAGE	FEATURES					FEATURE LEGEND
			LS	LD	SC	RJ45	CP	
<b>PERSONAL CONTROLS</b>								
 LMSW-100 Series	1-, 2-, 3-, 4- and 8-button Digital Wall Switches	24 VDC; 5mA	●	●	●	2		<b>FEATURE LEGEND</b> LS - LOAD SWITCHING LD - LOAD DIMMING SC - SCENE CONTROL RJ45 - NUMBER OF RJ45 PORTS LCD - LCD- DISPLAY CP - CONFIGURATION PROFILES
 LMDM-101	1-button Dimming Wall Switch	24 VDC; 5mA	●	●	●	2		
 LMSW-105	5-button Scene Switch	24 VDC; 5mA	●		●	2		
 LMPS-104	4-button Partition Switch	24 VDC; 5mA				2	16	
 LMRH-102	2-button IR Remote Control	3 AAA batteries	●					
 LMRH-101	1-button Dimming IR Remote Control	3 AAA batteries	●	●				
 LMRH-105	5-button Scene IR Remote Control	3 AAA batteries	●	●	●			

### Room and Area Controls





MODEL #	DESCRIPTION	VOLTAGE	FEATURES					
			ON/OFF	DIM	NOZ	RJ45	PNG	AC
<b>4</b> DAYLIGHTING SENSORS								
 LMLS-400	Single-zone On/Off and Dimming Closed Loop Photosensor	24 VDC; 7mA	●	●	1	1	●	●
 LMLS-500	Multi-zone On/Off and Dimming Open Loop Photosensor	24 VDC; 7mA	●	●	3	1		
 LMLS-600	Single-zone Dual Loop Switching and Dimming Photosensor	24 VDC; 7mA	●	●	1	1	●	●

FEATURE LEGEND	
	ON/OFF - ON/OFF SWITCHING
	DIM - DIMMING
	NOZ - NUMBER OF ZONES
	RJ45 - NUMBER OF RJ45 PORTS
	PNG - PLUG N' GO
	AC - AUTOMATIC CALIBRATION

MODEL #	DESCRIPTION	FUNCTION
<b>5</b> INTERFACES AND ACCESSORIES		
 LMRL-100	Isolated Relay Interface	Single-pole, double throw relay communicates occupancy status
 LMIO-101	Input/Output Interface	Single-pole, double throw relay communicates occupancy status of selected sensor(s) Accepts inputs from up to three 3rd party devices
 LMIO-102	Partition Interface	Accepts inputs from 3rd party contact closures on 4 moveable walls
 LMIO-301	Photocell Input Module	Reads input from analog photocells
 LMDI-100	Serial Data Interface	Communicates with 3rd party control system via RS-232 signals
 LMIR-100	Digital IR Ceiling Mount Receiver	Infrared transceiver accepts commands from DLM IR remote controls and transmits them over DLM local network
<b>6</b> CONFIGURATION TOOLS		
 LMCT-100	Wireless Configuration Tool	Enables convenient system and device modifications via pushbutton. Stores up to nine sensor profiles.
 LMCI/LMCS	Computer Interface Tools and Software	Enables PC connection to DLM local network in order to modify or document device and system settings.

## Whole Building Solutions

8

MODEL #	DESCRIPTION	FUNCTION
NETWORK COMPONENTS		
 LMBC-300	Network Bridge	Provides segment network connectivity to one DLM local network
	LMSM-201	Segment Manager, one MS/TP segment network
	LMSM-603	Segment Manager, three MS/TP segment networks
 NB-SWITCH NB-SWITCH-8 NB-SWITCH-16	Global Network Switches	Provides high speed connectivity for Digital Lighting Management (DLM) networked systems
 NB-ROUTER	Segment Network to IP Router	Provides a connection point between a single Digital Lighting Management (DLM) segment network and an Ethernet LAN



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